

Site Plans, SWPPP Reviews, Checklists & Enforcement, OH MY!

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Project/Environmental/Regulatory
Manager
January 23, 2018



Advancing Effective
Stormwater Management
and Erosion Control Practices

2018 MECA Improving MS4 Compliance Workshop

Improving MS4 Compliance

Good,

Better,

Best!

Never let it rest.

*Until your good is better,
and your better is best!*

MS4 Annual Assessment

The **permittee** shall conduct an Annual Assessment of their **SWPPP** to determine program compliance, the appropriateness of **BMPs**, and progress towards achieving the measurable goals identified in their **SWPPP** document. The Annual **SWPPP** Assessment shall be performed prior to completion of each Annual Report.

Know and understand MS4 Permit Requirements, your Regulatory Mechanisms, and your Enforcement Response Procedures.



MS4 Regulatory Mechanisms

- Ordinance / Code
- Design Standards
- Permits

MS4 Procedures

- Plan Reviews
- Inspections
- Documentation
- Enforcement Procedures

Know your program!

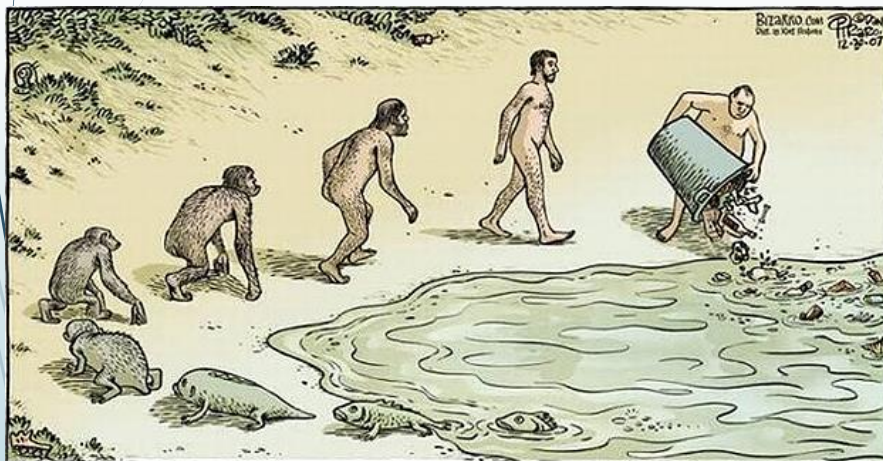
Continuous Program Review

It is easier to make incremental improvements as you review program procedures throughout the year.

It is harder to remember all the changes you thought of during the year if you make changes only during assessment.

Evolution of your MS4 program
USUALLY means more efficiencies.

Beware of evolutionary consequences!



Try, Try, and Try AGAIN

*2 forward
1 back*
Is still moving
forward



Consider all the costs & risks



Save some time, money



Hey boss.....



1000+ acres of Superior National Forest burnt by 78 acre controlled (out of control) burn. 2016



Site Plans,
SWPPP Reviews,
Checklists,
Enforcement,
OH MY!

PERMIT APPLICATIONS



Excavation Permits



COVER CARD
Construction Stormwater
National Pollutant Discharge Elimination System/State Disposal
System General Permit MNR100001

The Construction site identified below is covered under the National Pollutant Discharge Elimination System/State Disposal System General Permit MNR100001 and is authorized by the Minnesota Pollution Control Agency (MPCA) to discharge stormwater associated with construction activities.

Permit ID Number: C00031696
Owner: Saint Cloud city of
General Contractor:
Project Name: 10th
Permit Coverage D



Minnesota Department of Natural Resources
Application for
License to Cross Public Lands and Waters



Form 30795-02 (2-2-2017)
MINNESOTA DEPARTMENT OF TRANSPORTATION
MINNESOTA DEPARTMENT OF TRANSPORTATION
DRAINAGE PERMIT APPLICATION

ATTACH REQUIRED TECHNICAL SUBMITTALS (SEE INSTRUCTIONS)



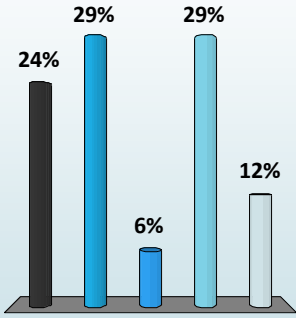
BUILDING PERMIT



CONSTRUCTION PERMIT APPLICATION

When or where does the SWPPP review fit into your MS4's plan review process?

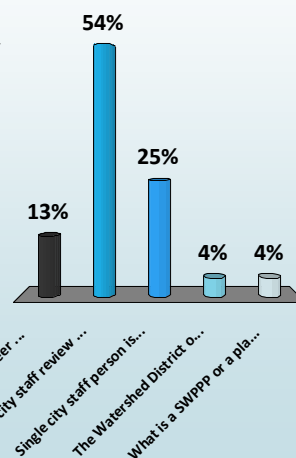
- A. It is done independent of all other permits and reviews
- B. As part of the Civil Plan review, i.e. part of the Engineering Dept. review
- C. As part of the Building Plan Review process
- D. All reviews, i.e. Civil, Building, SWPPP, are part of one organized plan review process
- E. Our MS4 does not do plan reviews



| Review Process | Percentage |
|---|------------|
| It is done independent of all other permits and reviews | 24% |
| As part of the Civil Plan review, i.e. part of the Engineering Dept. review | 29% |
| As part of the Building Plan Review process | 6% |
| All reviews, i.e. Civil, Building, SWPPP, are part of one organized plan review process | 29% |
| Our MS4 does not do plan reviews | 12% |

Who conducts SWPPP/plan reviews for your MS4?

- A. City consulting engineer reviews plans for all items, i.e. Erosion & Sediment Control requirements, post-construction, etc.
- B. Multiple city staff review different components, i.e. Engineering reviews hydrology reports, building permit staff review ESC, etc.
- C. Single city staff person is responsible for reviewing projects for all MS4 review components
- D. The Watershed District or other agency does this for our MS4 through a Cooperative Agreement.
- E. What is a SWPPP or a plan review?

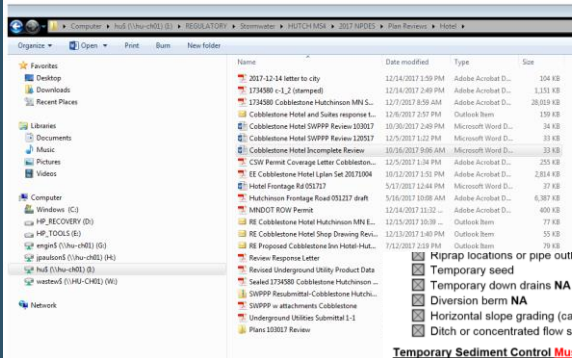


MS4 Plan Review Requirements

The **permittee's** Regulatory Mechanism(s) shall require that owners and operators of **construction activity** develop site plans that must be submitted to the **permittee** for review and approval, prior to the start of **construction activity**. Site plans must be kept up-to-date by the owners and operators of **construction activity** with regard to **stormwater** runoff controls. The Regulatory Mechanism(s) must require that site plans incorporate the following erosion and sediment controls and waste controls as described in the above referenced permit:

- (1) **BMPs** to minimize erosion
- (2) **BMPs** to minimize the discharge of sediment and other pollutants
- (3) **BMPs** for dewatering activities
- (4) Site inspections and records of rainfall events
- (5) **BMP** maintenance
- (6) Management of solid and hazardous wastes on each project site
- (7) Final stabilization upon the completion of **construction activity**, including the use of perennial vegetative cover on all exposed soils or other equivalent means
- (8) Criteria for the use of temporary sediment basins

Document Retention



- A must for future reference
 - Future drainage or erosion problems
 - Contractor compliance records
 - MS4 Audits
 - More valuable to City than MPCA

- ☒ Mkrp locations or pipe outlet stabilization for energy dissipation **NA**
- ☒ Temporary seed **NA**
- ☒ Temporary down drains **NA**
- ☒ Diversion berm **NA**
- ☒ Horizontal slope grading (cat tracking) **NA**
- ☒ Ditch or concentrated flow stabilization **NA**
- Temporary Sediment Control** **Must specify type and provide a detail for each BMP used**
 - ☒ Down gradient perimeter sediment control ☒ hook silt fence where appropriate
 - ☒ Temporary sediment ponds or traps **NA**
 - ☒ Ditch checks and type to be used **NA**
 - ☒ Vehicle entrances and tracking BMP locations **Show location on plan**
 - ☒ Street sweeping
 - ☒ Inlet protection **Include type used at each location and detail for each**
 - ☒ Flotation silt curtain **NA**
 - ☒ Sediment mat **NA**
- Permanent Erosion Control**
 - ☒ Seed mixture or sod quantities. **Include plan locations to be stabilized this way**
 - ☒ Mulch and application method **Include quantity of area to be stabilized this way**
 - ☒ Erosion control blanket **Include plan locations to be stabilized this way. L102 not clear plan locations**
 - ☒ Compost **NA**
 - ☒ Turf reinforcement mat **NA**

Document Reviews



- A strong review process can produce the following benefits:
- Create less work during busy months.
 - Keep project on radar if properly documented
 - Information will be readily available and easy to find when needed.
 - Help manage / justify workload needs.
 - Identify critical areas and points of discharge to focus efforts on.

SITE PLAN REVIEW NOTES

By taking good notes and being proactive during the site plan review process... you can save time and work.

CHECK LIST

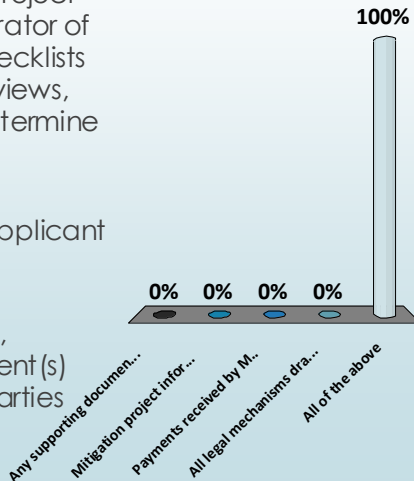
- ☒ Document / summarize information needed for future site inspections.
- ☒ Organize set up site inspection documents.
- ☒ Prioritize Site During Plan Review

Benefits:

- Create less work during busy months.
- Keep project on radar
- Information will be readily available and easy to find when needed.
- Help manage / justify workload needs.
- Identify critical areas and points of discharge to focus efforts on.
- Plans are public so share the good SWPPPs as examples

What site plan review documentation do you need to keep?

- A. Any supporting documentation used by the permittee to determine compliance with Part III.D.5.a, including the project name, location, owner and operator of the construction activity, any checklists used for conducting site plan reviews, and any calculations used to determine compliance
- B. Mitigation project information
- C. Payments received by MS4 for applicant to meet treatment requirements
- D. All legal mechanisms drafted in accordance with Part III.D.5.a(5), including date(s) of the agreement(s) and name(s) of all responsible parties involved
- E. All of the above



HISTORIC INFORMATION



- Past information on Developer / Owner
- Past information on Contractor(s)
- Site Location
- Don't forget about past offenses
- Talk to contractor about how to prevent reoccurring problems
- Constructive criticism is a valuable skill to deploy
- Evolves over time, should improve, if not, try something else

Plan Review Lessons Learned

- Location of construction
 - *Squeaky wheel nearby*
- Type of construction
- Redevelopment
 - *Contaminated soils*
 - *Brownfield issues*
 - *Dewatering native soils vs. fill*
- Owner / Builder responsible people
- Receiving waters: directly adjacent, far away
- Discharge points: Visible, remote
- Ground water sensitivity: Karsts, prohibitions

Bad soils more common than one thinks



Should this be part of MS4 Plan Review?



This could turn south really fast



Using proper materials to maintain MS4 compliance





Even when you
have planned
for everything....

... OH MY!

Don't forget to talk
to the old timers on
staff, they can
provide some
interesting insight!

ENFORCEMENT RESPONSE PROCEDURES

Part III.B.1.

The **permittee** shall develop and implement written ERPs to enforce and **compel compliance** with the Regulatory Mechanism(s) developed and implemented by the **permittee** in accordance with Part III.A.

ENFORCEMENT STRATEGIES

- Enforcement Response Procedures are the process and guide used to compel compliance
 - *Should align with Ordinance and/or Regulatory Mechanism*
 - *ERP should be revised if changing the way enforcement is done. Ordinance may need updates if plan dictates that changes are necessary.*
 - *Follow the ERP. Refer to it for escalating enforcement. Document accordingly.*
- If the tools used do not work then replace with ones that do.
- Continue to revise until the methods used

“COMPEL COMPLIANCE”

ENFORCEMENT STRATEGIES

- These are options identified in the 2016 MS4 Annual Report
- Check with City Attorney if considering to start using one of these before spending time developing a process
- Some are essential and critical to having an effective enforcement presence

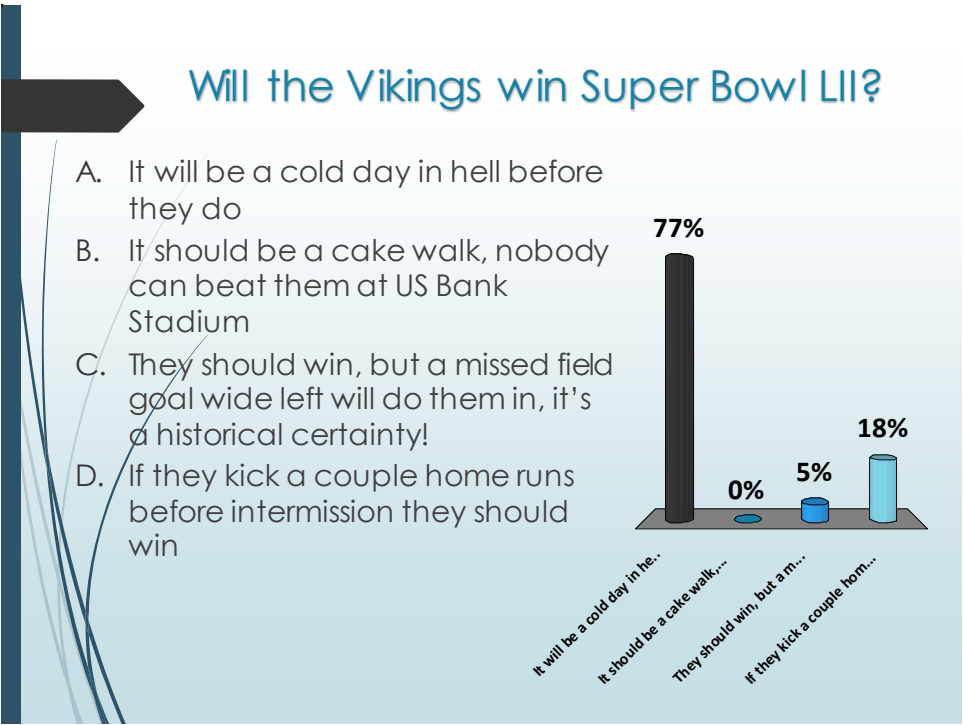
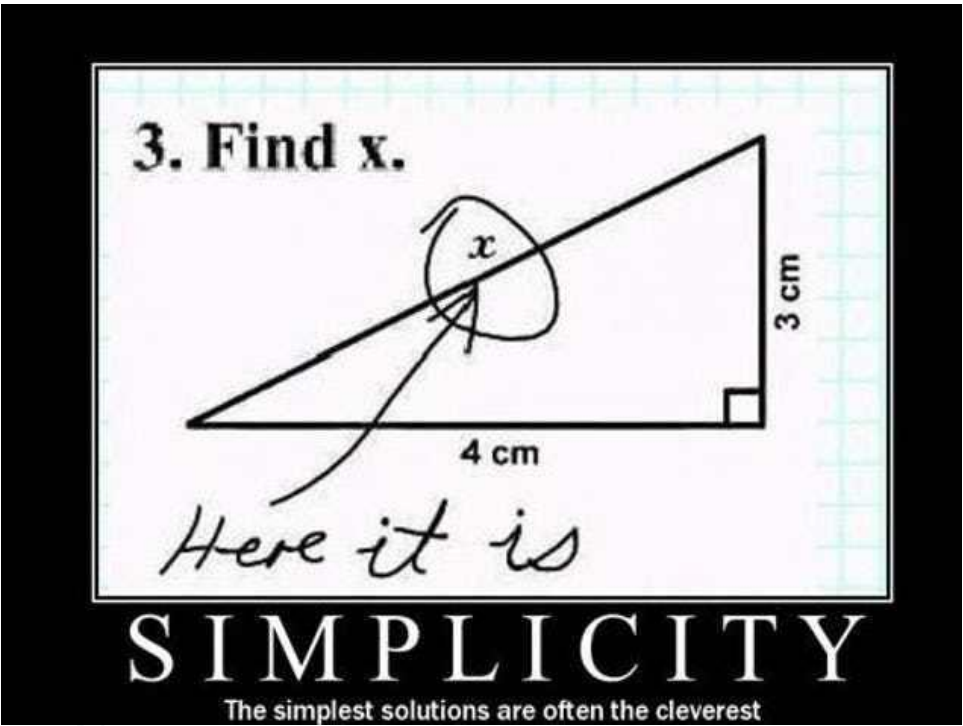
What types of enforcement actions do you have available to compel compliance with your regulatory mechanism? Check all that apply and enter the number of each used from January 1, 2016, to December 31, 2016.

- ☐ Verbal warning, Number that were issued:
- ☐ Notice of violation, Number that were issued:
- ☐ Administrative order, Number that were issued:
- ☐ Stop-work order, Number that were issued:
- ☐ Fine, Number that were issued:
- ☐ Forfeit of security of bond money:
- ☐ Withholding of certificate of occupancy
- ☐ Criminal action, Number that were issued:
- ☐ Civil penalty, Number that were issued:
- ☐ Other: describe. Number that were issued:

VARYING INSPECTION FREQUENCIES



| 2 | Date | Reported By | Description | Location | Photos | Action Taken | Corrective Action |
|---|------------|-------------------|--|---------------------|--------|---|---|
| 3 | 3/22/2017 | Anonymous | Hydraulic leak on garbage truck | 560 Harvest SW | Y | Contacted West Central Sanitation via email to inform them of the issue. Additional information has been requested which will be used to determine enforcement action to be taken. | Various correspondence with WCS confirmed that it was repaired upon discovery. Further evidence of being proactive with spill response and awareness of spill response procedures indicated that this is an incident. |
| 4 | 3/27/2017 | Anonymous | Leaves and woody debris left in street | 54 10th Ave NE | N | Visited site to investigate complaint and all the material had already been cleaned up. JP 3/28/17 | None |
| 5 | 3/29/2017 | Gene Otto | Concrete washout in curb | West Shore Dr SW | Y | Report indicated Knife River washed out their truck into the curb line. They were pouring footings to the east for a twin home. Visited site of concern and got a better description for caller. No evidence of wash water was present in the curb or catch basin. | None |
| 6 | 3/31/2017 | Kyle Dimler | Concrete washout on site without containment | 1315 Montreal St SE | Y | Notified Delon Luther, PM Kuepers, by phone that a designated concrete washout is required on site. I was not able to locate the designated washout area. | Remove washout material and dispose of properly. Designate washout area with signage and inform all personnel of requirement to use this area for washout. |
| 7 | 4/25/2017 | John Paulson | Grass Clippings in street | 964 Lynn Rd SW | Y | Mowing contractor, Viks Lawn Service, was still on site so I informed him of the city ordinance and issued them a verbal warning. | The grass clippings were cleaned up immediately upon notification. |
| 8 | 6/20/2017 | Jeff Bertram, WCI | Hydraulic leak on garbage truck | 560 3rd Ave SW | N | Contacted by West Central Sanitation via phone to inform us of the issue. | Various correspondence with WCS confirmed that it was repaired upon discovery. Further evidence of being proactive with spill response and awareness of spill response procedures indicated that this is an incident. Floor dry was used to absorb leak area. |
| 9 | 9/12/2017 | Mike Schumman | Hydraulic fluid release from tractor | 1210 Hwy 7 W | N | Notification sent from Mike Schumman, Fire Chief, to John Olson, PW Manager, to try to capture and collect lost materials. Duty Officer was notified by Mike S. An estimated 15 gallons was lost into the storm sewer. Deployment of floating oil boom in receiving pond from outlet will be used to collect material that has accumulated in the pipe. | Super America has indicated they would like to recollect the spill since it occurred on their property, for response and deployment of spill cleanup material will be invoiced to Super America. |
| | 10/17/2017 | John Paulson | Tracking dirt into street | 96 Denver Ave SE | Y | Notified Delon Luther, PM Kuepers, by phone that a construction entrance/exit must be used to haul excess soils off site. I informed | Rock entrance was installed and tracked soils were completely cleaned off of Montreal St SE. No stop |



OTHER SOURCES OF INFORMATION

The collage consists of five screenshots from Minnesota government websites:

- Top Left:** MPCA Construction Stormwater Special Waters Search page. It features a map of Minnesota with a highlighted watershed area. The page title is "Construction Stormwater Special Waters Search Minnesota Pollution Control Agency".
- Top Right:** MPCA homepage. It has a navigation bar with tabs for "Air", "Water", "Waste", "Regulations", and "Living Green". The MPCA logo is visible.
- Middle Left:** MPCA homepage. It has a navigation bar with tabs for "Air", "Water", "Waste", "Regulations", "Living Green", "Quick links", "Data", and "About the Agency". The MPCA logo is visible.
- Middle Right:** USDA Natural Resources Conservation Service (NRCS) Web Soil Survey homepage. It features the USDA logo and the text "United States Department of Agriculture Natural Resources Conservation Service Web Soil Survey".
- Bottom:** Minnesota Stormwater Manual website. It has a title "Minnesota Stormwater Manual" and a "New Page" link. An information box states: "Information: Taking advantage of the web technology, we continue to update this manual as resources allow, the content using the help improve this Paperless at the bottom of most pages or send an email to Mike.Trojan@dnr.mn.gov." Below this, it says: "Welcome to the Minnesota Stormwater Manual website. This website was developed using WebInteract, a web application that information."

Don't miss the fine print

shall at no cost to Subdivider, install the necessary storm sewer improvements to handle all storm water run off from the Subdivider's property to the detention Cell on the south side of the property which drains to the city Detention cell on the west side of trunk Highway No. 22. Installation of said improvements shall eliminate the need for the dry channel on the southeast portion of the Subdivider's property south of Bassett Drive.

The Subdivider shall convey to the City, and the City shall convey to the Subdivider all necessary permanent and temporary easements for the installation and maintenance of all the improvements determined to be necessary by the City. All such easements shall be in recordable form. The City will maintain all storm water management facilities and structures to the appropriate design function and capacity.

do hereby declare that we have caused the above described property to be surveyed and platted and monuments to be set, that we have named said platted area **BALLARD'S OAK RIDGE SUBDIVISION**, and that we dedicate to the public use the streets, highways and easements as shown hereon.

- Make sure plats, subdivision agreements, easements, etc. are accurately describing who the long term responsible party is for storm water conveyance systems.
- Try to double check easement locations for your pond accesses as homes are built.
- Know when infrastructure is to be conveyed. Agreements need to identify what has to be done before transfer occurs.

Use experiences to improve

- Make program adjustments as you discover opportunities or run into obstacles
- Insanity = Repeating the same action and expecting a different result

If at first you don't succeed



**Keep trying until you're
really screwed.**

Use experiences to improve

- Make program adjustments as you discover opportunities or run into obstacles
- Insanity = Repeating the same action and expecting a different result
- Review strategies with others throughout the year, i.e. staff, MS4 colleagues, WD staff, etc. to find out what works for others and possibly find a better way
- Apply this strategy whenever it makes sense







| Hutchinson MPCA SW Permit Tracking Log - Microsoft Excel | | | | | | | | | | | | | | | | | | | | |
|--|-------|--------------------------|---------------------------|--------------|---------|------------------------------|---------------------------|-------------------|------------------|------------|---------|---------|---------|---------|---------|-------|-------|-------|---|--|
| City of Hutchinson | | | | | | | | | | | | | | | | | | | | |
| ID | NAME | ADDRESS | Parcel ID | Type | Owner | Plat | EASEMENT | Latitude | Longitude | Year Built | WUL | HWR | Bottom | Live(A) | Dead(A) | Area | Det | | | |
| 53 | SW48 | Market Place Center 1 | 850 Denver Ave SW | 211630090100 | Private | Syan Properties | Only: Far Markt. Outlet C | None | 44.870 | -94.380 | 1998 | 1052.20 | 1055.60 | 1044.00 | | 1.844 | y | | | |
| 60 | SW68 | Market Place Center 2 | 844 Edmonston Ave SW | 211630090110 | Private | Syan Properties | Only: Far Markt. Outlet D | None | 44.868 | -94.380 | 1998 | 1052.00 | 1055.60 | 1052.00 | | 0.820 | y | | | |
| 61 | SW68 | Hutchinson Middle School | 1335 South Grade Rd SW | 211630010001 | Public | Hutchinson Schools | | None | 44.876 | -94.393 | 1999 | 1062.00 | 1064.00 | 1060.00 | | 0.448 | y | | | |
| 62 | SW17 | Word of Life | 950 School Rd SW | 211630160010 | Private | Word of Life | | None | 44.876 | -94.396 | 1996 | 1064.90 | 1069.30 | 1060.00 | | 0.156 | y | | | |
| 63 | SW41 | Roberts Park | 1600 Roberts St. SW | 211630090100 | Public | City of Hutchinson | | City Owned | 44.888 | -94.405 | | | | | | 1.017 | y | | | |
| 64 | SW63 | Bridgewater Estates | 815 Roberts St. SW | 211630150190 | Public | GPS Dickson Part | Bridgewater 3rd Addition | 332 | Drainage/Utility | 44.879 | -94.407 | 2005 | 1044.00 | 1051.30 | 1042.00 | 8.01 | 5.55 | 1.133 | y | |
| 65 | SW44 | Island View Heights | 1820 West Shore Dr. SW | Multiple | Public | Platted Through | Island View Heights 6th A | 319 | Drainage/Utility | 44.873 | -94.419 | 2003 | 1050.50 | 1053.70 | 1042.00 | | 1.096 | y | | |
| 66 | SW65 | Summerest 3rd Addition | 95 Edmonston Ave SE | 211620110030 | Public | Rolling Green Inc | Summerest 3rd Addition | 327 | Drainage/Utility | 44.868 | -94.370 | 2005 | 1044.00 | 1053.00 | 1043.00 | | 0.382 | y | | |
| 67 | SW66 | Kottke Court | 430 Kottke Court SE | 211629080180 | Private | Arthur K. Hagen | Kottke Court | 321 | Drainage/Utility | 44.872 | -94.359 | 2005 | 1042.00 | 1043.50 | 1040.00 | | 0.287 | y | | |
| 68 | SW67 | Parlay Estates 3rd Add | 1401 Parlay Ave NW | Multiple | Public | Platted Through | | 341 | Drainage/Utility | 44.914 | -94.399 | 2008 | 1081.50 | 1082.40 | 1075.00 | | 0.358 | y | | |
| 69 | SW66 | Carlson Place | 1315 Montreal St SE | 211629120090 | Public | Deer & Fair Development | | 342 | Drainage/Utility | 44.889 | -94.372 | 2006 | 1044.00 | 1053.00 | 1046.00 | | 0.129 | y | | |
| 70 | SW69 | Montana Street Pond | 820 3rd Ave NW | 211630160080 | Public | City of Hutchinson | | City Owned | 44.895 | -94.381 | 2006 | 1042.00 | 1044.50 | 1037.00 | | 0.123 | y | | | |
| 71 | SW70 | Henry 1 Pond 1 | 10831 1st Kottke Henry NW | 211630150010 | Public | City of Hutchinson | | 25Henry7 Pond | 44.893 | -94.389 | 2007 | 1039.00 | 1044.00 | 1033.00 | | 0.620 | y | | | |
| 72 | SW71 | Henry 1 Pond 2 | 234 4th Ave NW | 211630120570 | Public | City of Hutchinson | | 27Henry7 Pond | 44.887 | -94.377 | 2007 | 1043.00 | 1048.25 | 1037.00 | | 0.118 | y | | | |
| 73 | SW72 | Henry 1 Pond 3 | 184 4th Ave NW | 211630120470 | Public | City of Hutchinson | | 28Henry7 Pond | 44.887 | -94.375 | 2007 | 1040.00 | 1045.25 | 1032.00 | | 0.321 | y | | | |
| 74 | SW73 | Henry 1 Pond 4 | 390 4th St NE | 211630150090 | Public | City of Hutchinson | | 34Henry7 Pond | 44.895 | -94.368 | 2007 | 1035.00 | 1037.25 | 1030.00 | | 0.157 | y | | | |
| 75 | SW74 | Moehle Company | 1135 Henry 7 West | 211630140060 | Private | Moehle Company LLC | | None | 44.895 | -94.391 | 1995 | 1050.00 | 1051.75 | 1047.00 | | 0.078 | y | | | |
| 76 | SW75 | Golf Course No NW | 901 Golf Course No NW | 211630090100 | Public | West Bradford | | Drainage/Utility | 44.901 | -94.385 | 2004 | 1068.50 | 1071.00 | 1065.00 | | 0.085 | y | | | |
| 77 | SW75 | Henry 7 Pond 5 (oddfeet) | 1212 Henry 7 West | 211630040030 | Public | City of Hutchinson | | 62Henry7 Pond | 44.892 | -94.399 | 2007 | 1039.00 | 1042.25 | 1033.00 | | 0.476 | y | | | |
| 78 | SW77 | O'Reilly Auto Parts | 1500 Hwy 15 South | 211630160040 | Private | O'Reilly Automotive | | 262 | None | 44.887 | -94.376 | 2008 | 1060.00 | 1065.00 | 1060.00 | | 0.080 | y | | |
| 79 | SW78 | Warrior Manufacturing 1 | 1147 5th Ave SW | 211629070020 | Private | Silver Lake Capital Partners | | 331 | None | 44.885 | -94.344 | 2008 | 1060.00 | 1061.20 | 1064.00 | | 0.199 | y | | |
| 80 | SW79 | Warrior Manufacturing 2 | 1145 5th Ave SE | 211629070020 | Private | Silver Lake Capital Partners | | 331 | None | 44.887 | -94.344 | 2008 | 1060.00 | 1061.40 | 1064.00 | | 0.180 | y | | |
| 81 | SW89 | 3M Company 2 | 915 Adams Street SE | 211629160010 | Private | 3M | | None | 44.883 | -94.358 | 2006 | 1032.00 | 1035.00 | 1029.00 | | 0.231 | y | | | |
| 82 | SW87 | 3M Company 3 | 915 Adams Street SE | 211629160010 | Private | 3M | | None | 44.882 | -94.357 | 2006 | 1031.50 | 1035.00 | 1029.50 | | 0.476 | y | | | |
| 83 | SW82 | Rolling Meadows East 3 | 700 Texas Ave NW | Multiple | Public | Platted Through | | 314 | Drainage/Utility | 44.898 | -94.380 | 2005 | 1072.00 | 1073.40 | 1066.00 | | 0.108 | y | | |
| 84 | SW83 | Roberts Park | 1500 Roberts St. SW | 211630090110 | Public | City of Hutchinson | | City Owned | 44.896 | -94.400 | 2001 | 1038.30 | 1044.50 | 1035.00 | | 0.654 | y | | | |
| 85 | SW84 | Oak Heights Church | 1368 South Grade Rd SW | 211630040020 | Private | Oak Heights | | None | 44.876 | -94.395 | 2000 | 1057.80 | 1060.30 | 1054.00 | | 0.154 | y | | | |
| 86 | SW88 | Hwy 15 So. MNDOT | Airport Rd. & Hwy 15 So. | Public | MNDOT | | | None | 44.863 | -94.376 | 2003 | | | | | 1.680 | y | | | |
| 87 | SW88 | Airport | 1609 Hwy 15 So. | 211630010020 | Public | City of Hutchinson | | City Owned | 44.856 | -94.385 | 1992 | | | | | 1.474 | y | | | |
| 88 | SW87 | Southwest Foundation | 1150 5th Ave NW | 211630105840 | Private | Southwest MN Foundation | SWWF Addition | 333 | None | 44.896 | -94.371 | 2006 | 1037.44 | 1040.00 | 1037.44 | | 0.137 | y | | |
| 89 | SW88 | Northside | 864 Maple St NE | 211630090100 | Public | City of Hutchinson | | City Owned | 44.898 | -94.362 | 2008 | 1068.00 | 1071.00 | 1069.00 | | 1.786 | y | | | |
| 90 | SW88 | Carl Center | 1150 5th Ave SE | 211629070040 | Private | Customer Eaton Inc | Hutchinson 5th Ave Ind Pk | 331 | Drainage/Utility | 44.886 | -94.343 | 2007 | 1062.50 | 1064.00 | 1055.00 | | 0.181 | y | | |
| 91 | SW96 | Academy | 900 Main St W | 211630030110 | Public | City of Hutchinson | | City Owned | 44.906 | -94.370 | 2008 | 1070.00 | 1079.00 | 1065.00 | | 2.716 | y | | | |
| 92 | SW91 | 5th Ave NW | 185 5th Ave NW | 211630120021 | Public | Paul & Rose Robich | | Drainage/Utility | 44.900 | -94.375 | 2000 | 1062.50 | 1065.00 | 1058.00 | | 0.162 | y | | | |
| 93 | SW92 | Fairgrounds | 900 Airport Rd SW | 211630110010 | Private | McClell County | | None | 44.870 | -94.388 | 2008 | | | | | 0.774 | y | | | |
| 94 | SW93 | Energy Park 1 | 1100 Benjamin Ave SE | 211630090110 | Public | City of Hutchinson | | Energy Park North | 362 | City Owned | 44.941 | 2009 | 1056.00 | 1057.70 | 1052.00 | | 1.669 | y | | |
| 95 | SW94 | Energy Park 2 | 1112 Benjamin Ave SE | 211630090130 | Public | City of Hutchinson | | Energy Park North | 362 | City Owned | 44.932 | 2009 | 1061.00 | 1067.60 | 1061.00 | | 1.059 | y | | |
| 96 | SW95 | Energy Park 3 | 1105 5th Ave SE | 211630090190 | Public | City of Hutchinson | | City Owned | 44.888 | -94.341 | 2009 | 1054.00 | 1057.00 | 1049.50 | | 2.282 | y | | | |
| 97 | SW96 | Energy Park 5 | 1215 5th Ave SE | 211630090190 | Public | City of Hutchinson | | Energy Park North | 362 | City Owned | 44.890 | 2009 | 1055.00 | 1057.94 | 1050.00 | | 1.114 | y | | |
| 98 | SW97 | Energy Park 4 | 1182 Benjamin Ave SE | 211629021320 | Public | City of Hutchinson | | Energy Park North | 362 | City Owned | 44.890 | 2009 | 1055.00 | 1057.94 | 1050.00 | | 1.114 | y | | |
| 99 | SW98 | McCrae 1 | 900 Hwy 7 West | 211630150030 | Private | Degeet Ventures LLC | | None | 44.894 | -94.367 | 2009 | 1046.50 | 1044.00 | 1041.00 | | 0.147 | y | | | |
| 100 | SW99 | McCrae 2 | 720 Hwy 7 West | 211630160180 | Private | Hutchinson Manufacturing | | None | 44.895 | -94.364 | 2009 | 1046.70 | 1045.00 | 1042.50 | | 0.509 | y | | | |
| 101 | SW100 | Crossroads | 1509 Adams St SE | 211629110010 | Public | City of Hutchinson | | City Owned | 44.868 | -94.346 | 2000 | 1033.33 | 1028.19 | 1023.22 | | 0.122 | y | | | |
| 102 | SW101 | Lindy Lane | 681 Lindy Lane NE | 211630140110 | Private | Tom Schwartz | | None | 44.894 | -94.350 | 2004 | | | | | 0.033 | y | | | |
| 103 | SW102 | Crow River Golf | 915 Colorado St NW | 211630040020 | Private | Crow River Country Club | | None | 44.903 | -94.397 | 1995 | | | | | 1.180 | y | | | |
| 104 | SW103 | Depot RG | 25 Adams St SE | 211629020060 | Public | City of Hutchinson | | Drainage/Utility | 44.892 | -94.365 | 2013 | 1039.00 | 1040.50 | 1039.00 | | 0.036 | y | | | |
| 105 | SW104 | Memory River 1 | 685 Lindy Lane NE | 211630140110 | Private | HARC | HARC Addition | 369 | Drainage/Utility | 44.895 | -94.365 | 2011 | 1056.20 | 1055.00 | 1052.00 | 1.34 | 0.58 | 0.476 | y | |
| 106 | SW105 | Memory River 2 | 685 Lindy Lane NE | 211630140110 | Private | HARC | HARC Addition | 369 | None | 44.895 | -94.362 | 2004 | 1055.10 | 1055.00 | 1051.00 | 3.38 | 2.10 | 0.923 | y | |
| 107 | SW106 | Cedar Park RG | 230 Cedar Ave NW | 211630140020 | Public | City of Hutchinson | | City Owned | 44.892 | -94.361 | 2011 | 1049.00 | 1042.00 | 1040.00 | | 0.080 | y | | | |
| 108 | SW107 | Woodstone | 1025 Oak St SW | 211630030230 | Private | Beer Saw Properties | Welcome to our Home | 279 | None | 44.876 | -94.357 | 2013 | | | | | 0.100 | y | | |
| 109 | SW108 | Jefferson Oakland | 801 Jefferson St SE | 211630030230 | Public | City of Hutchinson | | City Owned | 44.881 | -94.366 | 2014 | | | | | 0.100 | y | | | |
| 110 | SW109 | Sharon Baptist | 1215 Roberts Rd NW | 211630050110 | Private | Sharon St. Baptist Church | Stoney Point 2nd | 108 | None | 44.896 | -94.365 | 2015 | | | | | 0.100 | y | | |
| 111 | SW110 | Crow River Golf East | 915 Colorado St NW | 211630030070 | Private | Crow River Country Club | | None | 44.904 | -94.392 | 1995 | | | | | | | | | |
| 112 | SW111 | City Operated Pond | Not a SW Pond | | | | | | | | | | | | | | | | | |
| 113 | SW112 | City Operated Pond | Not a SW Pond | | | | | | | | | | | | | | | | | |
| Ready Mac MPCA Permits City IPDES ISW Ponds City Ponds Outlets to Public Waters Public Waters Facility Inventory City MPCA San Sewer Extension MPCA MS4 Waters Inventory | | | | | | | | | | | | | | | | | | | | |

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P |
|----|----|---------------------------|------------------------|--------|--------------------------|--------------------------|---------------|--------------------|-----------------------------|---------|----------|---|---|---|---|
| 1 | ID | NAME | ADDRESS | Type | Owner | Veg Managed | Hrs Annually | NWL | HWL | Bottom | Area NWL | D | | | |
| 2 | 1 | Fairway Estates | 1402 Heritage Ave NW | Public | Platted Through + outlot | Owners | 2 | 1076.80 | 1078.70 | 1072.90 | 1.350 | | | | |
| 3 | 2 | Fairway Estates | 1257 Birdie Cir NW | Public | Platted Through | Owners | 2 | 1076.50 | 1080.50 | 1072.00 | 0.136 | | | | |
| 4 | 3 | The Greens | 1192 Oakwood Ct NW | Public | Hutch Fairway Dev. | Owners | 2 | 1077.00 | 1077.50 | 1076.00 | 0.485 | | | | |
| 5 | 4 | The Greens 2 | 1192 Oakwood Ct NW | Public | Hutch Fairway Dev. | Owners | 2 | 1077.00 | 1077.90 | 1076.00 | 0.419 | | | | |
| 6 | 5 | The Greens 3 | 1192 Oakwood Ct NW | Public | Hutch Fairway Dev. | Owners | 2 | 1077.36 | 1078.00 | 1074.00 | 0.093 | | | | |
| 7 | 6 | The Greens 4 | 1192 Oakwood Ct NW | Public | Hutch Fairway Dev. | Owners | 2 | 1077.36 | 1078.00 | 1074.00 | 0.451 | | | | |
| 8 | 7 | School Rd N | 1201 School Rd N | Public | Hutchinson Congregation | Owners | 2 | 1075.20 | 1077.00 | 1073.00 | 0.447 | | | | |
| 9 | 14 | Rolling Meadows | 750 Shiloh St. NW | Public | City of Hutchinson | Owners | 12 | 1069.00 | 1062.00 | 1056.00 | 0.805 | | | | |
| 10 | 15 | Husky Townhomes | 995 Texas Cir. NW | Public | Platted Through | Owners | 4 | 1066.50 | 1070.10 | 1062.00 | 0.281 | | | | |
| 11 | 16 | Rolling Meadows East | 630 Minnesota St. NW | Public | Platted Through | Owners | 1 | 1075.00 | 1076.00 | 1070.00 | 0.486 | | | | |
| 12 | 17 | Rolling Meadows East | 660 Texas Ave. NW | Public | Platted Through | Owners | 1 | 1070.00 | 1071.20 | 1064.00 | 0.198 | | | | |
| 13 | 29 | Veterans Park | 295 - 1st Ave NE | Public | City of Hutchinson | City | 8 | 1033.17 | 1034.00 | 1030.00 | 0.027 | | | | |
| 14 | 34 | 2nd Ave SE Pond | 840 2nd Ave SE | Public | City of Hutchinson | City | 16 | 1035.45 | 1037.52 | 1030.00 | 0.383 | | | | |
| 15 | 36 | Goebels | 890 5th Ave SE | Public | City of Hutchinson | City | 16 | 938.00 | 941.20 | 932.00 | 0.343 | | | | |
| 16 | 41 | Echo Drive | 905 Hwy 15 S | Public | Firststate Federal | City | 8 | 1066.80 | 1068.80 | 1066.80 | 0.120 | | | | |
| 17 | 43 | Menards | 1455 Montreal St. SE | Public | Menard Inc. | Owners | 4 | 1048.00 | 1053.00 | 1043.00 | 1.200 | | | | |
| 18 | 44 | Elks Park | 1100 Sherwood St. SE | Public | City of Hutchinson | City | 8 | 1057.00 | 1061.00 | 1057.00 | 0.229 | | | | |
| 19 | 46 | Summerset Addition | 1291 Denver Ave SE | Public | Platted Through | Owners | 2 | 1048.00 | 1051.00 | 1042.00 | 1.474 | | | | |
| 20 | 47 | Summerset Addition | Denver Ave SE | Public | Timothy Albrecht | Owners | 2 | 1045.00 | 1046.90 | 1040.00 | 0.560 | | | | |
| 21 | 48 | Southwind | 330 Ottawa Ave SE | Public | Platted Through | Owners | 2 | 1047.00 | 1050.20 | 1042.00 | 1.043 | | | | |
| 22 | 49 | Southfork | 1305 Southfork Dr. SE | Public | Darrel A Farr Dev. Cor. | Owners | 2 | 1047.00 | 1048.50 | 1038.00 | 0.067 | | | | |
| 23 | 50 | Southfork | 1437 Southfork Dr. SE | Public | Platted Through | Owners | 8 | 1026.40 | 1026.95 | 1018.00 | 0.252 | | | | |
| 24 | 52 | Ravenwood | 1190 Bluejay Dr. | Public | Platted Through | Owners | 4 | 1048.00 | 1053.00 | 1042.00 | 4.871 | | | | |
| 25 | 60 | Hutchinson Middle School | 1375 South Grade Rd SW | Public | Hutchinson Schools | City | 16 | 1062.00 | 1064.00 | 1060.00 | 0.448 | | | | |
| 26 | 62 | Roberts Park | 1600 Roberts St. SW | Public | City of Hutchinson | City | 16 | | | | 1.017 | | | | |
| 27 | 63 | Bridgewater Estates | 815 Roberts St. SW | Public | GPS Dickinson Part. | Owners | 2 | 1048.00 | 1051.30 | 1042.00 | 1.133 | | | | |
| 28 | 64 | Island View Heights | 1820 West Shore Dr. SW | Public | Platted Through | Owners | 4 | 1050.50 | 1053.70 | 1042.00 | 1.096 | | | | |
| 29 | 65 | Summerset 3rd Addition | 95 Edmonton Ave SE | Public | Rolling Green Inc | Owners | 2 | 1048.00 | 1053.00 | 1043.00 | 0.782 | | | | |
| 30 | 67 | Fairway Estates 3rd Add. | 1431 Heritage Ave NW | Public | Platted Through | Owners | 2 | 1081.50 | 1082.40 | 1075.00 | 0.358 | | | | |
| 31 | 68 | Calaford Place | 1315 Montreal St SE | Public | Darrel A Farr Developmer | Owners | 2 | 1048.00 | 1053.00 | 1046.00 | 0.129 | | | | |
| 32 | 69 | Montana Street Pond | 620 3rd Ave NW | Public | City of Hutchinson | City | 16 | 1042.00 | 1044.50 | 1037.00 | 0.123 | | | | |
| 33 | 70 | Hwy 7 Pond 1 | 1003 Les Kouba Pkwy NW | Public | City of Hutchinson | City | 16 | 1039.00 | 1044.00 | 1032.00 | 0.620 | | | | |
| 34 | 71 | Hwy 7 Pond 2 | 234 4th Ave NW | Public | City of Hutchinson | City | 16 | 1043.00 | 1046.25 | 1037.00 | 0.118 | | | | |
| 35 | 72 | Hwy 7 Pond 3 | 184 4th Ave NW | Public | City of Hutchinson | City | 16 | 1040.00 | 1045.25 | 1032.00 | 0.351 | | | | |
| 36 | 73 | Hwy 7 Pond 4 | 300 Bluff St NE | Public | City of Hutchinson | City | 16 | 1035.00 | 1037.25 | 1030.00 | 0.157 | | | | |
| 37 | 75 | Golf Course Road | 905 Golf Course Rd NW | Public | Bart Bradford | Owners | 2 | 1068.50 | 1071.00 | 1065.00 | 0.085 | | | | |
| 38 | 76 | Hwy 7 Pond 5 (oddfellows) | 1212 Hwy 7 West | Public | City of Hutchinson | City | 16 | 1039.00 | 1042.25 | 1032.00 | 0.478 | | | | |
| 39 | 82 | Rolling Meadows East | 700 Texas Ave NW | Public | Platted Through | Owners | 1 | 1072.00 | 1073.40 | 1068.00 | 0.106 | | | | |
| 40 | 83 | Roberts Park | 1500 Roberts St. SW | Public | City of Hutchinson | City | 4 | 1039.30 | 1040.50 | 1035.00 | 0.054 | | | | |
| 41 | 86 | Airport | 1650 Hwy 15 So. | Public | City of Hutchinson | City | 8 | | | 1040.50 | 1.474 | | | | |
| | | Misc MPCA Permits | City NPDES ISW | Ponds | City Ponds | Outlets to Public Waters | Public Waters | Facility Inventory | City MPCA San Sewer Extensi | | | | | | |

Inspections

- Conduct annual inspections of **structural stormwater BMPs, Ponds, and Outfalls** to determine structural integrity, proper function and maintenance needs.
- The **permittee** shall conduct quarterly inspections of stockpiles, and storage and material handling areas as inventoried in Part III.D.6.a, to determine maintenance needs and proper function of **BMPs**. ISW Permitted sites are not regulated by the MS4 permit.
 - There is room for improvement in how to conduct and document inspections



City of Hutchinson Outfall Inspection Form

General Information

Outfall Number: 5006 Inspector: John Paulson, Arcy Kettler

Map of location: ☒ Ok ☐ Incorrect, explain in Comments

Date: 6-10-15 Time: 10:40

Last Rainfall: ☐ Raining now ☐ 0-2 days ☒ 3-5 days ☐ Unknown

End of Pipe Access: ☒ Accessible ☐ Unaccessible (if so, describe below)

☐ Blocked ☐ Ground too wet ☐ Fence/Gate locked ☐ Vegetation ☐ Water ☐ Other

End of Pipe Information

Flows into? ☐ Lake ☐ Stream ☐ Wetland ☐ Ditch ☒ Other: S.F. Crow River

End of Pipe Submerged? ☒ No ☐ Yes If yes: ☐ 25% ☐ 50% ☐ 50%+

Does Outfall need repair? ☒ No ☐ Yes If yes, describe in Comments

Grate on end of pipe? ☒ No ☐ Yes If yes, is grate locked? ☐ No ☐ Yes

Visual Observations

Water flowing from end of pipe? ☐ No ☒ Yes

If yes, what does the water look like? ☒ Clear ☐ Muddy ☐ Colored, what color? _____

Sediment accumulation in pipe? ☒ No ☐ Yes

If yes, how much? ☐ <25% ☐ 25-50% ☐ >50%

Debris accumulation in pipe? ☒ No ☐ Yes

If yes, how much? ☐ <25% ☐ 25-50% ☐ >50%

Describe Debris: _____

Evidence of Illicit Discharge? ☒ No ☐ Yes

Describe: _____

Evidence of Illicit Connections? ☒ No ☐ Yes

Describe: _____

Comments (identify any follow-up action or reporting required)

All OK photo 1

Excel Outfall Inspection Form 2017 - Excel

File Home Developer Insert Page Layout Formulas Data Review View Tell me what you want to do...

Normal Page Break Preview Page Custom Workbook Views Ruler Formula Bar Gridlines Headings Zoom 100% Zoom to Selection New Window Arrange All Freeze Panes Split View Side by Side Synchronous Scrolling Reset Window Position Switch Windows Macros

City of Hutchinson Outfall Inspection Form

General Information

Outfall Number: 57 Inspector: Mariah Mraz

Date: 8/1/2017 Time: 11:10

Last Rainfall: > 3 days Photo: [X] #

End of Pipe Access: Accessible If Not, Why?

End of Pipe Information

Flows Into? S.F. Crow River

End of Pipe Submerged? No How Much?

Does Outfall Need Repair? No If yes, comment below

Grate on End of Pipe? Yes Is it Locked? Yes

Visual Observations

Water Flowing From Pipe? No What Percent? Flow Rate

Description of Water

Dissect accumulation in pipe? No

Debris accumulation in pipe? No

Evidence of Illicit Discharge? No If yes, comment below

Evidence of Illicit Connections? No If yes, comment below

Comments:

No issues

Entry Sheet 57 63 70 2367 3482 64 67 2413 2549 51 2930 2857 2865 3455 3456 68 69 108 3021 3 ...

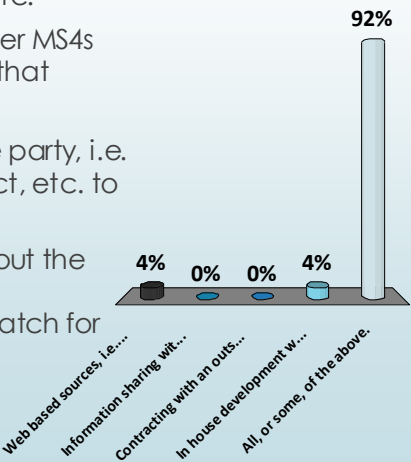
| CB Num | Area Name | Quad | Description | X |
|--------|-------------------|------|-------------------|----|
| 50 | Shady Ridge Rd | NW | 789 Shady Ridge | 55 |
| 51 | Roberts Park Pk | SW | Pond Street | |
| 52 | Campbell Lane N | NW | SW Corner of Cal | |
| 53 | Campbell Lane N | NW | | |
| 54 | Campbell Lane N | NW | NW Corner | |
| 55 | Ohio | C | Rear Lot Dishwash | 51 |
| 56 | Venerans Park | C | Pond Discharge | |
| 57 | Shoals | C | NE corner | |
| 58 | Airport Ditch | SW | Discharge to Med | |
| 59 | Urbino Pond (T) | C | SE Corner ditch | |
| 60 | Prophet St NE | C | Extension to Rte | |
| 61 | Adams St SE | C | SE of Adams St | |
| 62 | Lakewood Dr SW | SW | 860 Lakewood Dr | 55 |
| 63 | Washington Ave | SE | Extension to Rte | |
| 64 | Oddellous Park | NW | Discharge to Rte | |
| 65 | Oddellous Park | NW | Discharge to Rte | |
| 66 | Harrison St SE | C | Extension to Rte | |
| 67 | Roberts Park W4 | SW | NW Corner | 55 |
| 68 | Sh-Ave SE (NE of) | SE | | |
| 69 | Adams St SE | SE | Ammon for disch | 55 |

MS4 Toolbox 2007



Where do you usually get your MS4 tools from?

- A. Web based sources, i.e. Google, MPCA, EPA, City websites, etc.
- B. Information sharing with other MS4s that have proven methods that would work in your MS4.
- C. Contracting with an outside party, i.e. consultant, watershed district, etc. to meet MS4 requirements.
- D. In house development without the use of outside resources or information. Made from scratch for your MS4.
- E. All, or some, of the above.



MS4 Toolbox 2018



Questions?

